Nuclear Engineering and Design 118 (1990) 513–515
North-Holland

AUTHOR INDEX TO VOLUME 118

Akers, D.W., R.K. McCardell, M.L. Russell and G. Worku, TMI-2 core materials and fission product inventory 118 (1990) 451
Akers, D.W., see McCardell 118 (1990) 441
Albert, K., F. Borkowski, A. Scholz and H.G. Wahsweiler, Application of new calculation methods to the primary shielding of the AVR experimental reactor 118 (1990) 259
Allen, R.P. and A.B. Johnson, Jr., Lessons learned to date from the Shippingport aging evaluation 118 (1990) 319
Axmann, J.K., B. Klüver, W. Oldekop and S. Pelloni, The influence of nuclear cross section date bases on the neutron physics of high converting PWRs 118 (1990) 61

Bass, B.R., see Naus 118 (1990) 283
Becker, H.J., see Würz 118 (1990) 123
Borkowski, F., see Albert 118 (1990) 259
Böse, H., P. Röss, H. Unger and A. Ziegler, Theoretical and experimental thermal-hydraulic analysis of a new sodium cooled fast breeder reactor core 118 (1990) 77
Boyd, D.M., see Doctor 118 (1990) 355
Brinkmann, H.U., R. Duwe, B. Ganser, A.-W. Mehner and A. Rebmann, Contributions towards the development of a packaging concept for the final disposal of spent HTGR pebble bed fuel 118 (1990) 107
Bruemmer, S.M., see Doctor 118 (1990) 355
Bürger, M., see Mayr 118 (1990) 55
Burns, Jr., J.J., see Shah 118 (1990) 329

Closs, K.D. and H.J. Engelmann, Status of the FRG activities on direct disposal of spent LWR-fuel 118 (1990) 99
Conley, D.A., see Shah 118 (1990) 329
Corradini, M.L., see Kim 118 (1990) 193
Costello, J.F., see Kot 118 (1990) 305

De Wit, R., see Naus 118 (1990) 283
Deffenbaugh, J.D., see Doctor 118 (1990) 359
Depiante, E.V. and J.E. Meyer, Parity simulation of a boiling water reactor system 118 (1990) 163
DeWall, K.G., Early results of gate valve flow interruption blowdown tests 118 (1990) 419
DeWall, K.G., see Steele 118 (1990) 431
Doctor, S.R., D.M. Boyd and S.M. Bruemmer, Assessment of nondestructive measurement techniques to quantify material property degradation due to aging in light water reactor environments 118 (1990) 355
Doctor, S.R., J.D. Deffenbaugh, M.S. Good, E.R. Green, P.G. Heasler, L.D. Reid, F.A. Simonen, J.C. Spanner, T.T. Taylor and T.V. Vo, NDE reliability and SAFT-UT final development 118 (1990) 359
Duce, S.W., Effectiveness and safety aspects of selected decontamination methods for LWRs – Recontamination experience 1988 118 (1990) 487
Duwe, R., see Brinkmann 118 (1990) 107

Engelmann, H.J., see Closs 118 (1990) 99

Fields, R.J., see Naus 118 (1990) 283
Freund, H.U., see Wegener 118 (1990) 87
Friehmelt, V., see Scheibel 118 (1990) 133
Fröhlich, H., see Scheibel 118 (1990) 133
Fröning, H. Safety concept for an HTR liner design for combined stress and strain-controlled load 118 (1990) 253
Fullwood, R., see Shier 118 (1990) 381

Ganser, B., see Brinkmann 118 (1990) 107
Gill, R., see Schmocker 118 (1990) 17
Good, M.S., see Doctor 118 (1990) 359
Gräbener, K.-H., C. Von Koch and W. Nickel, Volume reduction, treatment and recycling of radioactive waste 118 (1990) 115
Green, E.R., see Doctor 118 (1990) 359
Gunther, W., see Lofaro 118 (1990) 375

Haggag, F.M. and S.K. Iskander, Results of irradiated cladding tests and clad plate experiments 118 (1990) 297
Hansjosten, E., see Talja 118 (1990) 29
Haynes, H.D., Application of signature analysis for determining the operational readiness of motor-operated valves under blow-down test conditions 118 (1990) 399
Heasler, P.G., see Doctor 118 (1990) 359
Henssen, J. and R. Mauersberger, Experimental optimization of the temperature

distribution in the hot-gas duct through the installation of internals in the hot-gas plenum of a high-temperature reactor 118 (1990) 243
Hetsroni, see Mauro 118 (1990) 179
Hetzer, D.C., see Robertson 118 (1990) 463
Hirakawa, K., see Sato 118 (1990) 227
Hocke, K.-D., see Mayr 118 (1990) 55
Hsieh, B.J., see Kot 118 (1990) 305

Iskander, S.K., see Haggag 118 (1990) 297
Iyori, I., see Murata 118 (1990) 141

Jacobus, M.J., Condition monitoring methods applied to class 1E cables 118 (1990) 497
Johnson, Jr., A.B., see Allen 118 (1990) 319
Jonas, R., W. Schütz and A. Reetz, Model calculations and experimental verification of the bubble behaviour in a Bethe–Tait Accident 118 (1990) 71

Karwat, H., Ignitors to mitigate the risk of hydrogen explosion – A critical review 118 (1990) 267
Keeney-Walker, J., see Naus 118 (1990) 283
Kim, M.H. and M.L. Corradini, Modeling of condensation heat transfer in a reactor containment 118 (1990) 193
Kimura, S., see Sato 118 (1990) 227
Klüver, B., see Axmann 118 (1990) 61
Kobayashi, M., see Murata 118 (1990) 141
Kot, C.A., M.G. Srinivasan, B.J. Hsieh, L. Malcher, D. Schrammel, H. Steinhilber and J.F. Costello, SHAM: High-level seismic tests of piping at the HDR 118 (1990) 305
Kryter, R.C., Nonintrusive methods for monitoring the operational readiness of solenoid-operated valves 118 (1990) 409
Kurumada, A., see Sato 118 (1990) 227

Lofaro, R., W. Gunther, M. Subudhi and J. Taylor, Nuclear plant aging study of residual heat removal systems 118 (1990) 375
Low III, S.R., see Naus 118 (1990) 283

MacDonald, P.E., see Shah 118 (1990) 329
Magleby, H.L., see Meyer 118 (1990) 389
Malcher, L., see Kot 118 (1990) 305
Martzloff, F.D., see Mopsik 118 (1990) 505
Masuhara, Y., see Yokomizo 118 (1990) 213
Mauersberger, R., see Henssen 118 (1990) 243
Mauro, G., M. Sala and G. Hetsroni, Improved Italian Moisture Separators (IIMS) 118 (1990) 179
Mayr, P., M. Bürger, K.-D. Hocke, A. Schatz and H. Unger, Core heatup and thermal behavior of the upper plenum structures affected by free convective gas flows in PWRs 118 (1990) 55
McCardell, R.K., M.L. Russell, D.W. Akers and C.S. Olsen, Summary of TMI-2 core sample examinations 118 (1990) 441
McCardell, R.K., see Akers 118 (1990) 451
Mehner, A.-W., see Brinkmann 118 (1990) 107
Meyer, J.E., see Depiante 118 (1990) 163
Meyer, L.C. and H.L. Magleby, Nuclear plant aging research on the high-pressure injection system 118 (1990) 389
Mopsik, F.I. and F.D. Martzloff, Time domain spectroscopy to monitor the condition of cable insulation 118 (1990) 505
Murata, H., I. Iyori and M. Kobayashi, Natural circulation characteristics of a marine reactor in rolling motion 118 (1990) 141

Naus, D.J., B.R. Bass, J. Keeney-Walker, R.J. Fields, R. De Wit and S.R. Low III, HSST wide-plate test results and analysis 118 (1990) 283
Nickel, W., see Gräbener 118 (1990) 115
Novick, V.J. and M.J. Pilat, Gas and aerosol sampling from high temperature, transient pressure environments 118 (1990) 219

Oldekop, W., see Axmann 118 (1990) 61
Olsen, C.S., see McCardell 118 (1990) 441

Pelloni, S., see Axmann 118 (1990) 61
Pilat, M.J., see Novick 118 (1990) 219
Przybilla, H.-J., Geometrical quality control of fuel elements – A procedure for high precision underwater photogrammetry compared with common measuring techniques 118 (1990) 1

Rebmann, A., see Brinkmann 118 (1990) 107
Reetz, A., see Jonas 118 (1990) 71
Reid, L.D., see Doctor 118 (1990) 359
Robertson, D.E., C.W. Thomas, N.L. Wynhoff and D.C. Hetzer, Characterization of long-lived activation products in spent fuel assembly hardware and reactor pressure vessel steel 118 (1990) 463
Röss, P., see Böse 118 (1990) 77
Russell, M.L., see Akers 118 (1990) 451
Russell, M.L., see McCardell 118 (1990) 441

Sala, M., see Mauro 118 (1990) 179
Sato, S., K. Hirakawa, A. Kurumada, S. Kimura and E. Yasuda, Degradation of fracture mechanics properties of reactor graphite due to burn-off 118 (1990) 227
Schatz, A., see Mayr 118 (1990) 55
Scheibel, H.G., V. Friehmelt and H. Fröhlich, The fracture and aerosol release of impacted HLW-glasses due to accidental canister drops in a disposal site 118 (1990) 133

Schmocker, U. and R. Gill, Safety goals and design criteria for small heating reactors 118 (1990) 17
Scholz, A., see Albert 118 (1990) 259
Schrammel, D., see Kot 118 (1990) 305
Schumann, St., see Wegener 118 (1990) 87
Schütz, W., see Jonas 118 (1990) 71
Shah, V.N., A.G. Ware, D.A. Conley, F.E. MacDonald and J.J. Burns, Jr., Aging assessment of PWR surge and spray lines and LWR coolant pumps 118 (1990) 329
Shier, W. and R. Fullwood, PRAAGE88: An interactive IBM-PC code for aging analysis of NUREG-1150 systems 118 (1990) 381
Simonen, F.A., see Doctor 118 (1990) 359
Spanner, J.C., see Doctor 118 (1990) 359
Srinivasan, M.G., see Kot 118 (1990) 305
Steele, R., K.G. DeWall, G.H. Weidenhamer and H.W. Woods, Full scale valve qualification and flow interruption testing provides insights on industry motor operator sizing shortcomings and diagnostic testing limitations 118 (1990) 431
Steinbock, L., Tomography of nuclear fuel experiments with an electronic line scan camera 118 (1990) 9
Steinhilber, H., see Kot 118 (1990) 305
Subudhi, M., see Lofaro 118 (1990) 375
Svoboda, R., see Von Böckh 118 (1990) 21

Talja, A. and E. Hansjosten, Results of thermal stratification tests in a horizontal pipe line at the HDR facility 118 (1990) 29
Taylor, J., see Lofaro 118 (1990) 375
Taylor, T.T., see Doctor 118 (1990) 359
Thomas, C.W., see Robertson 118 (1990) 463

Unger, H., see Böse 118 (1990) 77
Unger, H. see Mayr 118 (1990) 55

Vo, T.V., see Doctor 118 (1990) 359
Von Böckh, P. and R. Svoboda, Improvements of the plant availability and of the erosion corrosion with the retrofit of pre- and crossunder pipe separators 118 (1990) 21
Von Koch, C., see Gräbener 118 (1990) 115
Vora, J.P., Potential application of NRC aging research to license renewal 118 (1990) 343

Wagner, K., see Würz 118 (1990) 123
Wahba, A.B., International activities for the analysis of the TMI-2 accident with special consideration of ATHLET calculations 118 (1990) 43
Wahsweiler, H.G., see Albert 118 (1990) 259
Ware, A.G., see Shah 118 (1990) 329
Wegener, H., H.U. Freund and St. Schumann, Explosive cutting of thick-walled steel pipes in the HDR reactor 118 (1990) 87
Weidenhamer, G.H., see Steele 118 (1990) 431
Woods, H.W., see Steele 118 (1990) 431
Worku, G., see Akers 118 (1990) 451
Würz, N., K. Wagner and N.J. Becker, Nondestructive determination of residual fuel on leached hulls and dissolver sludges from LWR fuel reprocessing 118 (1990) 123
Wynhoff, N.L., see Robertson 118 (1990) 463

Yasuda, E., see Sato 118 (1990) 227
Yokomizo, O., Y. Masuhara and Y. Yoshimoto, An on-line method to monitor BWR core stability based on an autocorrelation method 118 (1990) 213
Yoshimoto, Y., see Yokomizo 118 (1990) 213

Ziegler, A., see Böse 118 (1990) 77
Zun, I., The mechanism of bubble non-homogeneous distribution in two-phase shear flow 118 (1990) 155

Nuclear Engineering and Design 118 (1990) 517–519
North-Holland

SUBJECT INDEX TO VOLUME 118

Thermal and fluid design

International activities for the analysis of the TMI-2 accident with special consideration of ATHLET calculations, A.B. Wahba 118 (1990) 43
Model calculations and experimental verification of the bubble behaviour in a Bethe-Tait accident, R. Jonas, W. Schütz and A. Reetz 118 (1990) 72
Theoretical and experimental thermal-hydraulic analysis of a new sodium cooled fast breeder reactor core, H. Böse, P. Röss, H. Unger and A. Ziegler 118 (1990) 77
The mechanism of bubble non-homogeneous distribution in two-phase shear flow, I. Žun 118 (1990) 155
Parity simulation of a boiling water reactor system, E.V. Depiante and J.E. Meyer 118 (1990) 163
Modeling of condensation heat transfer in a reactor containment, M.H. Kim and M.L. Corradini 118 (1990) 193
An on-line method to monitor BWR core stability based on an autocorrelation method, O. Yokomizo, Y. Masuhara and Y. Yoshimoto 118 (1990) 213
Gas and aerosol sampling from high temperature, transient pressure environments, V.J. Novick and M.J. Pilat 118 (1990) 219

Heat conduction and transfer

Improved Italian Mositure Separators (IIMS), G. Mauro, M. Sala and G. Hetsroni 118 (1990) 179

Fluid dynamics

Results of thermal stratification tests in a horizontal pipe line at the HDR facility, A. Talja and E. Hansjosten 118 (1990) 29
Natural circulation characteristics of a marine reactor in rolling motion, H. Murata, I. Iyori and M. Kobayashi 118 (1990) 141

Materials properties

Degradation of fracture mechanics properties of reactor graphite due to burn-off, S. Sato, K. Hirakawa, A. Kurumada, S. Kimura and E. Yasuda 118 (1990) 227
Results of irradiated cladding tests and clad plate experiments, F.M. Haggag and S.K. Iskander 118 (1990) 297

Mechanical design, component fabrication and testing

Geometrical quality control of fuel elements – a procedure for high precision underwater photogrammetry compared with common measuring, H.-J. Przybilla 118 (1990) 1
Improvement of the plant availability and of the erosion corrosion with the retrofit of pre- and crossunder pipe separators, P. Von Böckh and R. Svoboda 118 (1990) 21
Explosive cutting of thick-walled steel pipes in the HDR reactor, H. Wegener, H.U. Freund and St. Schumann 118 (1990) 87
Experimental optimization of the temperature distribution in the hot-gas duct through the installation of internals in the hot-gas plenum of a high-temperature reactor, J. Henssen and R. Mauersberger 118 (1990) 243
HSST wide-plate test results and analysis, D.J. Naus, B.R. Bass and J. Keeney-Walker, R.J. Fields, R. De Wit and S.R. Low III 118 (1990) 283
Results of irradiated cladding tests and clad plate experiments, F.M. Haggag and S.K. Iskander 118 (1990) 297
SHAM: high-level seismic tests of piping at the HDR, C.A. Kot, M.G. Srinivasan, B.J. Hsieh, L. Malcher, D. Schrammel, H. Steinhilber and J.F. Costello 118 (1990) 305
Lessons learned to date from the Shippingport aging evaluation, R.P. Allen and A.B. Johnson, Jr. 118 (1990) 319
Aging Assessment of PWR surge and spray lines and LWR coolant pumps, V.N. Shah, A.G. Ware, D.A. Conley, P.E. MacDonald and J.J. Burns, Jr. 118 (1990) 329
NDE reliability and SAFT-UT final development, S.R. Doctor, J.D. Deffenbaugh, M.S. Good, E.R. Green, P.G. Heasler, L.D. Reid, F.A. Simonen, J.C. Spanner, T.T. Taylor and T.V. Vo 118 (1990) 359
Nuclear plant aging study of residual heat removal systems, R. Lofaro, W. Gunther, M. Subudhi and J. Taylor 118 (1990) 375

Application of signature analysis for determining the operational readiness of motor-operated valves under blowdown test conditions, H.D. Haynes 118 (1990) 399
Nonintrusive methods for monitoring the operational readiness of solenoidoperated valves, R.C. Kryter 118 (1990) 409
Early results of gate valve flow interruption blowdown tests, K.G. DeWall 118 (1990) 419
Full scale valve qualification and flow interruption testing provides insights on industry motor operator sizing shortcomings and diagnostic testing limitations, R. Steele, K.G. DeWall, G.H. Weidenhamer and H.W. Woods 118 (1990) 431
Effectiveness and safety aspects of selected decontamination methods for LWRs – Recontamination Experience 1988, S.W. Duce 118 (1990) 487

Reactor concepts and systems analysis

Safety goals and design criteria for small heating reactors, U. Schmocker and R. Gilli 118 (1990) 17
Ignitors to mitigate the risk of hydrogen explosions – a critical review, H. Karwat 118 (1990) 267
Nuclear plant aging study of residual heat removal systems, R. Lofaro, W. Gunther, M. Subudhi and J. Taylor 118 (1990) 375
PRAAGE88: an interactive IBM-PC code for aging analysis of NUREG-1150 systems, W. Shier and R. Fullwood 118 (1990) 381
Nuclear plant aging research on the high-pressure injection system, L.C. Meyer and H.L. Magleby 118 (1990) 389

Safeguard engineering

Model calculations and experimental verification of the bubble behaviour in a Bethe-Tait accident, R. Jonas, W. Schütz and A. Reetz 118 (1990) 71
Application of new calculation methods to the primary shielding of the AVR experimental reactor, K. Albert, F. Borkowski, A. Scholz and H.G. Wahsweiler 118 (1990) 259
Effectiveness and safety aspects of selected decontamination methods for LWRs – Recontamination Experience 1988, S.W. Duce 118 (1990) 487

Layout of nuclear facilities

Potential application of NRC aging research to license renewal, J.P. Vora 118 (1990) 343
Assessment of nondestructive measurement techniques to quantify material property degradation due to aging in light water reactor environments, S.R. Doctor, D.M. Boyd and S.M. Bruemmer 118 (1990) 355
Nuclear plant aging research on the high-pressure injection system, L.C. Meyer and H.L. Magleby 118 (1990) 389

Structural design, construction methods and testing

Safety concept for an HTR liner design for combined stress and strain-controlled load, H. Fröning 118 (1990) 253

Isotope engineering

Characterization of long-lived activation products in spent fuel assembly hardware and reactor pressure vessel steel, D.E. Robertson, C.W. Thomas, N.L. Wynhoff and D.C. Hetzer 118 (1990) 463

System control and controls

Geometrical quality control of fuel elements – a procedure for high precision underwater photogrammetry compared with common measuring techniques, H.-J. Przybilla 118 (1990) 1
Nonintrusive methods for monitoring the operational readiness of solenoidoperated valves, R.C. Kryter 118 (1990) 409
Condition monitoring methods applied to Class 1E cables, M.J. Jacobus 118 (1990) 497
Time domain spectroscopy to monitor the condition of cable insulation, F.I. Mopsik and F.D. Martzloff 118 (1990) 505

Nuclear waste management and disposal

Explosive cutting of thick-walled steel pipes in the HDR reactor, H. Wegener, H.U. Freund and St. Schumann 118 (1990) 87
Status of the FRG activities on direct disposal of spent LWR-fuel, K.D. Closs and H.J. Engelmann 118 (1990) 99
Contributions towards the development of a packaging concept for the final disposal of spent HTGR pebble bed fuel, H.U. Brinkmann, R. Duwe, B. Ganser, A.-W. Mehner and A. Rebmann 118 (1990) 107
Volume reduction, treatment and recycling of radioactive waste, K.-H. Gräbener, C. von Koch and W. Nickel 118 (1990) 115
Nondestructive determination of residual fuel on leached hulls and dissolver sludges

from LWR fuel reprocessing, H. Würz, K. Wagner and H.J. Becker 118 (1990) 123
The fracture and aerosol release of impacted HLW-glasses due to accidental canister drops in a disposal site, H.G. Scheibel, V. Friehmelt and H. Fröhlich 118 (1990) 133
Characterization of long-lived activation products in spent fuel assembly hardware and reactor pressure vessel steel, D.E. Robertson, C.W. Thomas, N.L. Wynhoff and D.C. Hetzer 118 (1990) 463
Effectiveness and safety aspects of selected decontamination methods for LWRs – Recontamination Experience 1988, S.W. Duce 118 (1990) 487

Core physics and fuel design

Tomography of nuclear fuel experiments with an electronic line scan camera, L. Steinbock 118 (1990) 9
International activities for the analysis of the TMI-2 accident with special consideration of ATHLET calculations, A.B. Wahba 118 (1990) 43
Core heatup and thermal behavior of the upper plenum structures affected by free convective gas flows in PWRs, P. Mayr, M. Bürger, K.-D. Hocke, A. Schatz and H. Unger 118 (1990) 55
The influence of nuclear cross section data bases on the neutron physics of high converting PWRs, J.K. Axmann, B. Klüver, W. Oldekop and S. Pelloni 118 (1990) 61
Theoretical and experimental thermal-hydraulic analysis of a new sodium cooled fast breeder reactor core, H. Böse, P. Röss, H. Unger and A. Ziegler 118 (1990) 77
Summary of TMI-2 core sample examinations, R.K. McCardell, M.L. Russell, D.W. Akers and C.S. Olsen 118 (1990) 441
TMI-2 core materials and fission product inventory, D.W. Akers, R.K. McCardell, M.L. Russell and G. Worku 118 (1990) 451

Nuclear safety

Modeling of condensation heat transfer in a reactor containment, M.H. Kim and M.L. Corradini 118 (1990) 193
Gas and aerosol sampling from high temperature, transient pressure environments, V.J. Novick and M.J. Pilat 118 (1990) 219
Summary of TMI-2 core sample examinations, R.K. McCardell, M.L. Russell, D.W. Akers and C.S. Olsen 118 (1990) 441
TMI-2 core materials and fission product inventory, D.W. Akers, R.K. McCardell, M.L. Russell and G. Worku 118 (1990) 451